

IN THE ABSTRACT:

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-- A nozzle arrangement for guiding fluidizing gas to a fluidized bed gasifier or combustor. The nozzle arrangement includes a nozzle piece attached to a nozzle tube or forming a structural unit with a nozzle tube. The nozzle piece includes (i) a nozzle chamber, (ii) a horizontally extending nozzle channel in flow communication with the nozzle chamber, and (iii) a blow opening at the end of the nozzle piece. The blow opening directs fluidizing gas being blown through the nozzle chamber and the nozzle channel into the fluidized bed gasifier or combustor. The nozzle arrangement further includes an impervious lid for defining an upper limit of the nozzle chamber, the nozzle channel and the blow opening, and a protecting cover attached above and spaced apart from the lid, for minimizing cooling of the outer surface of the nozzle piece due to the fluidizing gas being blown through the nozzle piece into the fluidized bed gasifier or combustor. --